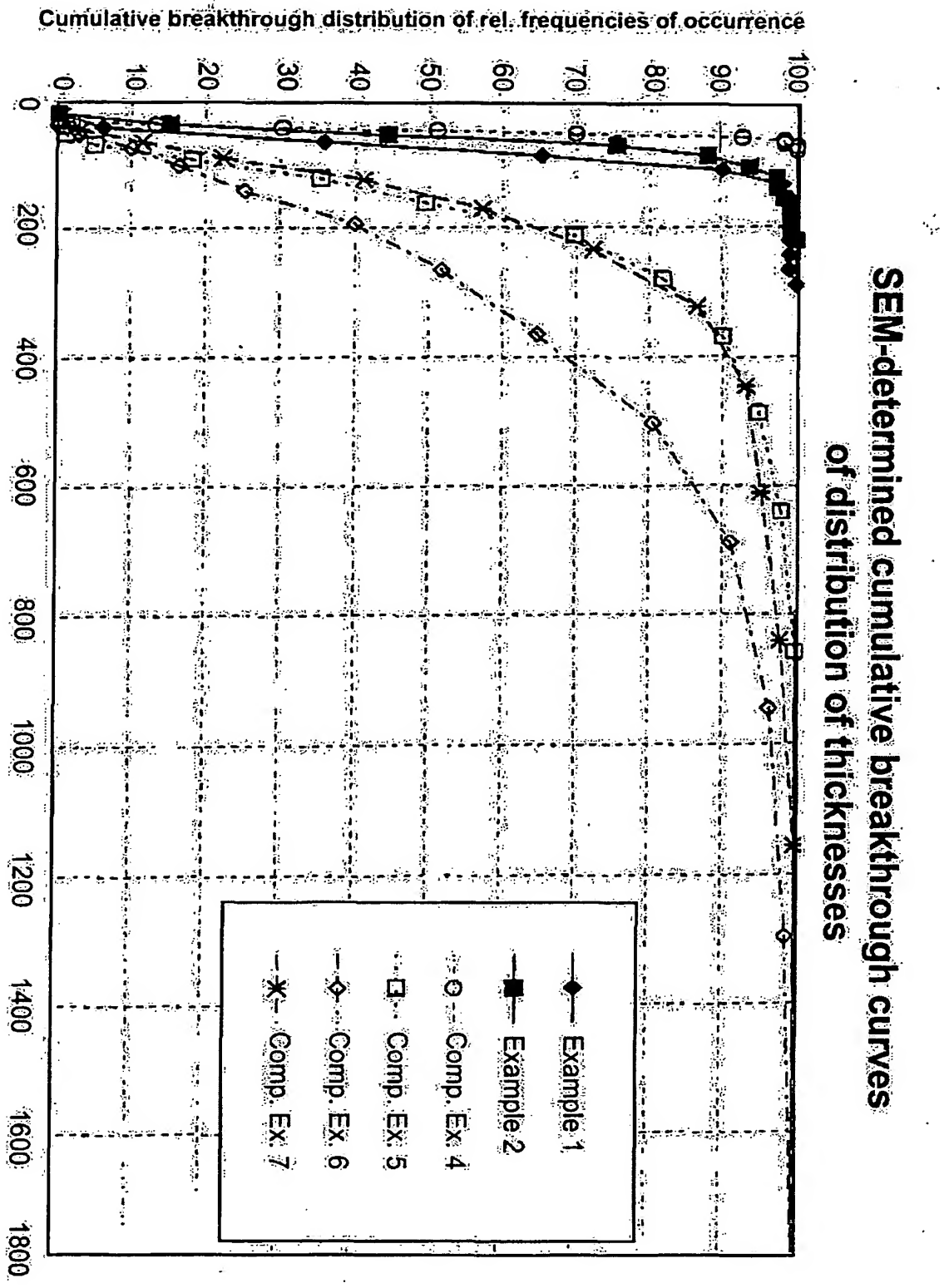
SEM-determined cumulative breakthrough curves
of distribution of thicknesses
Cumulative breakthrough distribution of rel. frequencies of occurrence
100
90
80
70
60
50
40
30
20
10
0
0
200
400
600
800
1000
1200
1400
1600
1800
Thickness /nm
Example 1
Example 2
Comp. Ex. 4
Comp. Ex. 5
Comp. Ex. 6
Comp. Ex. 7

Fig. 1a

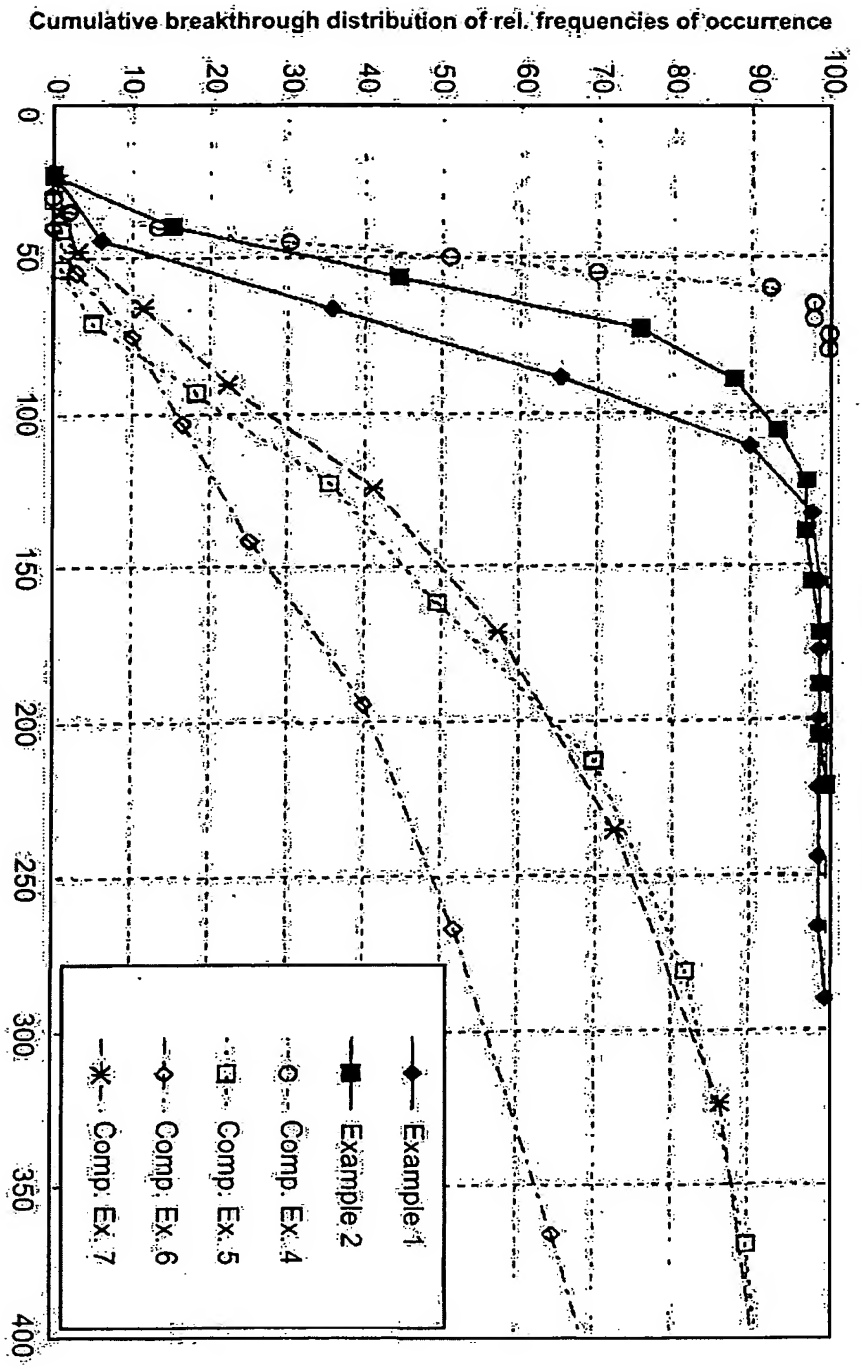
SEM-determined cumulative breakthrough curves
of distribution of thicknesses
Small thickness scale
Cumulative breakthrough distribution of rel. frequencies of occurrence
Thickness /nm
Example 1
Example 2
Comp. Ex. 4
Comp. Ex. 5
Comp. Ex. 6
Comp. Ex. 7

Fig. 1b

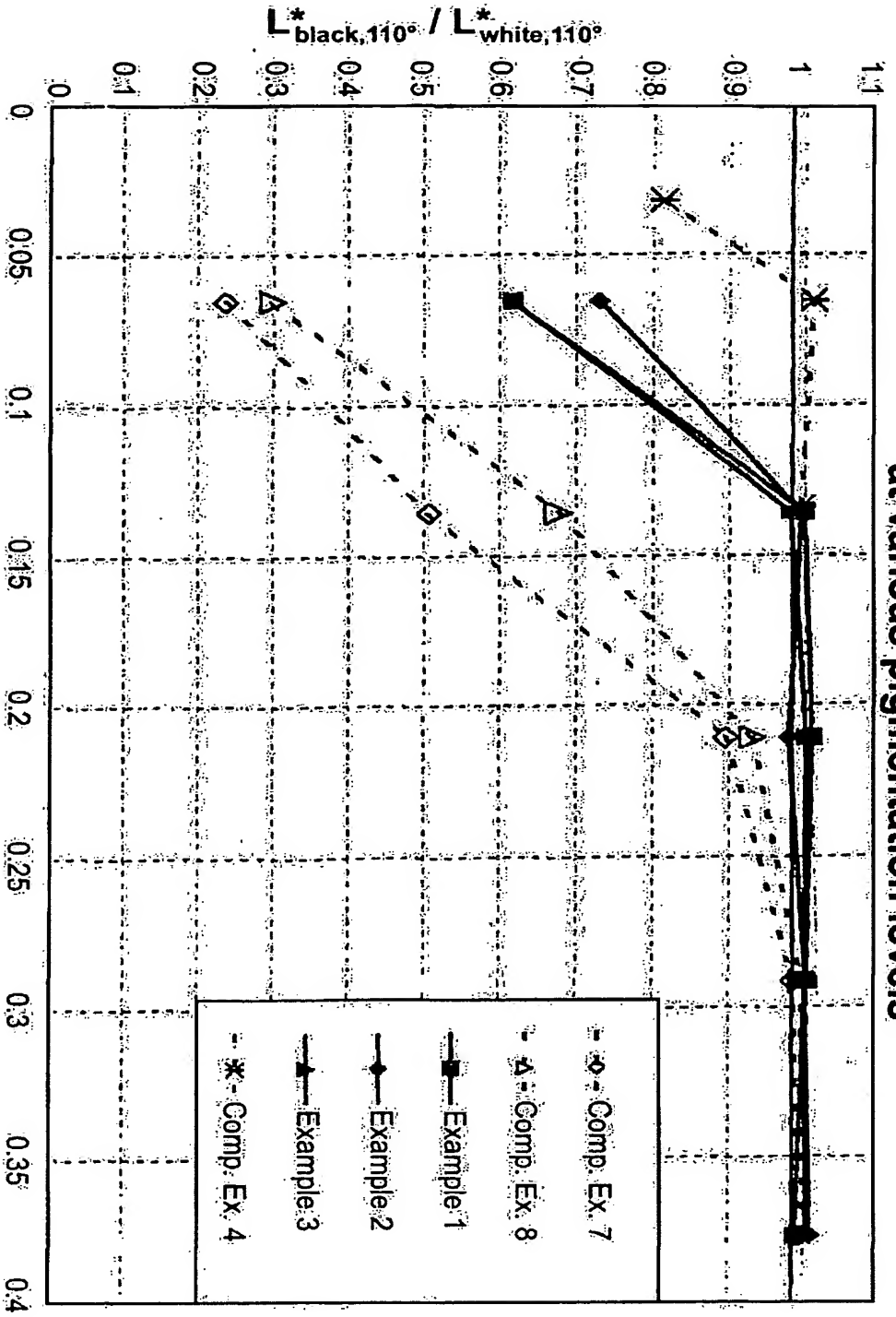
Optical covering capacity at 110° in nitrocellulose lacquer
at various pigmentation levels
$L^*_{black,110°} / L^*_{white,110°}$
Surface area concentration of Al Pigment c_{Al} [mg/cm²]
Comp. Ex. 7
Comp. Ex. 8
Example 1
Example 2
Example 3
Comp. Ex. 4

Fig. 2

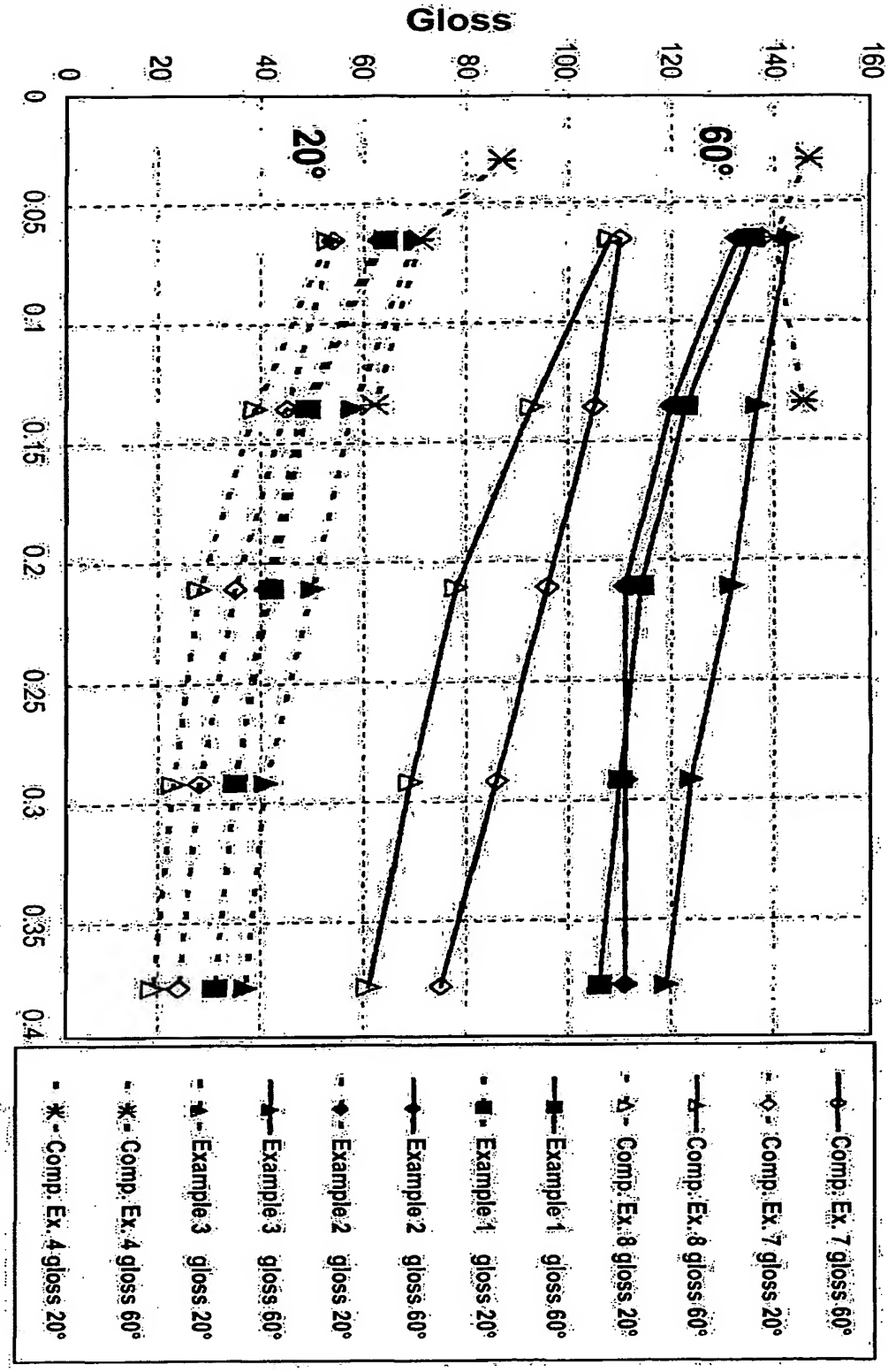
Gloss measurements in nitrocellulose lacquer at various pigmentation levels
Gloss
160
140
120
100
80
60
40
20
0
60°
20°
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
Surface area concentration of Al Pigment c_{Al} [mg/cm^2]
Comp. Ex. 7 gloss 60°
Comp. Ex. 7 gloss 20°
Comp. Ex. 8 gloss 60°
Comp. Ex. 8 gloss 20°
Example 1 gloss 60°
Example 1 gloss 20°
Example 2 gloss 60°
Example 2 gloss 20°
Example 3 gloss 60°
Example 3 gloss 20°
Comp. Ex. 4 gloss 60°
Comp. Ex. 4 gloss 20°

Fig. 3

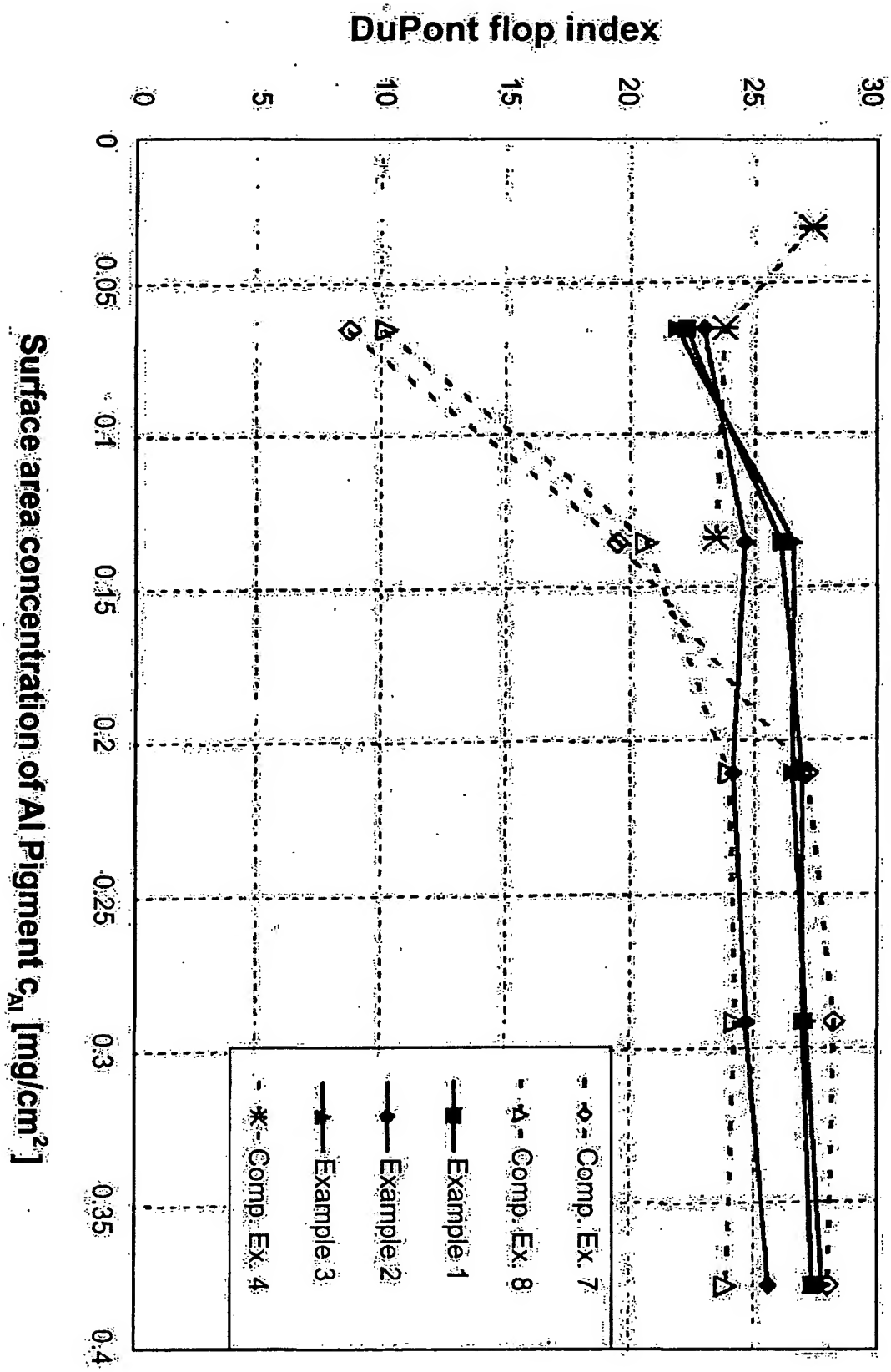
DuPont flop in nitrocellulose lacquer
at various pigmentation levels
DuPont flop index
Surface area concentration of Al Pigment c_{Al} [mg/cm^2]
0
5
10
15
20
25
30
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
Comp. Ex. 7
Comp. Ex. 8
Example 1
Example 2
Example 3
Comp. Ex. 4

Fig. 4

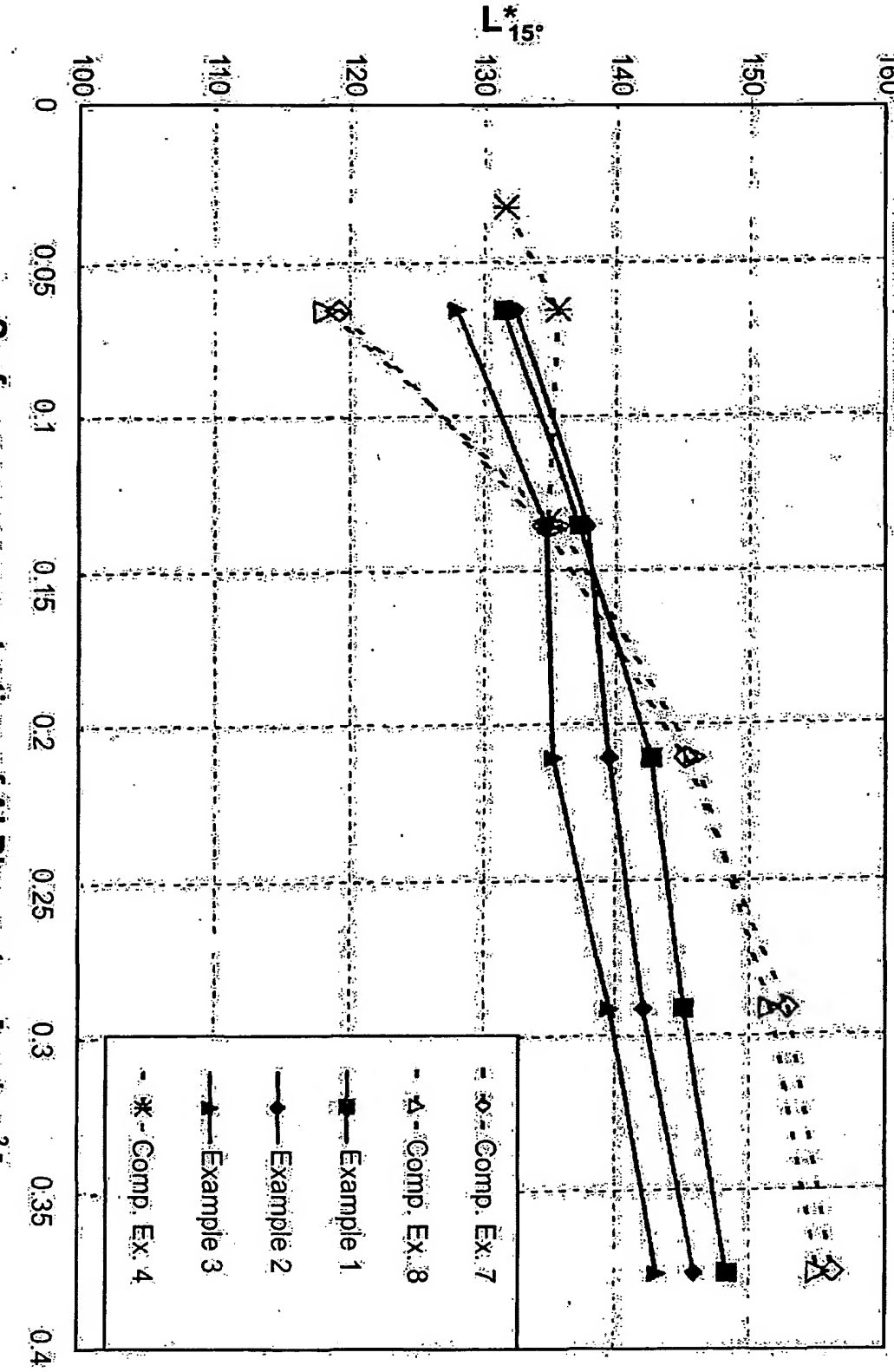
Brightness $L^*_{15°}$ in nitrocellulose lacquer
at various pigmentation levels
$L^*_{15°}$
160
150
140
130
120
110
100
0
0.05
0.1
0.15
0.2
0.25
0.3
0.35
0.4
Surface area concentration of Al Pigment c_{Al} [mg/cm²]
- ◇ - Comp. Ex. 7
- △ - Comp. Ex. 8
- ■ - Example 1
- ◆ - Example 2
- ▲ - Example 3
- ✳ - Comp. Ex. 4

Fig. 5